

Docket No. 0083-0865-2

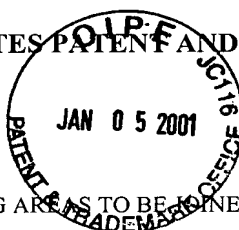
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Masashi GOTOH, et al.

SERIAL NO: 09/119,626

FILED: July 21, 1998

FOR: CIRCUIT BOARD HAVING BONDING AREAS TO BE JOINED WITH BUMPS BY ULTRASONIC BONDING



GAU: 2841

EXAMINER: GAFFIN, J.

GP 2841
#2841
IDS
1/23/01
P. Ann Jones

INFORMATION DISCLOSURE/RELATED CASE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references cited in the European Search Report listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Patent Office

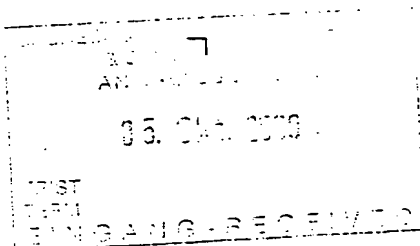
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Datum/Date

05.10.00

Zeichen/Ref./Réf.

EP15550-045/iw

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

98113678.1-2214-

Anmelder/Applicant/Demandeur/Patentinhaber/Propriétaire/Titulaire

TDK Corporation

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☒ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

1

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 11 3678

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
① A ✓	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) & JP 07 263849 A (MITSUBISHI ELECTRIC CORP), 13 October 1995 (1995-10-13) * abstract *	1,4	H05K1/11 H05K3/32 H01L21/60 H01L23/498
② A ✓	US 5 793 098 A (UCHIDA HIROYUKI) 11 August 1998 (1998-08-11) * figures 3,4,7,9 * & JP 09 148487 A (...) 6 June 1997 (1997-06-06)	1,4	
③ A ✓	US 5 446 244 A (MORI AKIHISA ET AL) 29 August 1995 (1995-08-29)		
④ A ✓	PATENT ABSTRACTS OF JAPAN vol. 003, no. 106 (E-135), 7 September 1979 (1979-09-07) & JP 54 083374 A (HITACHI LTD), 3 July 1979 (1979-07-03)		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01L H05K
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 September 2000	Examiner Prohaska, G
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

copy

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 11 3678

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-09-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 07263849 A	13-10-1995	NONE	
US 5793098 A	11-08-1998	JP 2755239 B JP 9148487 A	20-05-1998 06-06-1997
US 5446244 A	29-08-1995	NONE	
JP 54083374 A	03-07-1979	NONE	

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 0083-0865-2		SERIAL NO. 09/119,626	
LIST OF REFERENCES CITED BY APPLICANT <div style="position: absolute; top: 50px; left: 250px; border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> OIPE JAN 05 2001 PATENT & TRADEMARK OFFICE </div>				APPLICANT Masashi GOTOH, et al. #21			
				FILING DATE July 21, 1998		GROUP 2841	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KE	AA	5,793,098	8/11/98	Uchida	—	—	
KE	AB	5,446,244	8/29/95	Kawanabe, et al.	—	—	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
KE	AO	54083374	7/3/79	JAPAN (English Abstract Only)	✓		
KE	AP	07263849	10/13/95	JAPAN (English Abstract Only)	✓		
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW	<div style="font-size: 4em; line-height: 1;">f</div>					
	AX						
	AY						
	AZ						
Examiner <u>K. Melton</u>				Date Considered <u>3/10/01</u>			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							